

State of California
The Resources Agency

Department of Water Resources

# Water Conditions in California

WATER RESOURCES
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Report 3 April 1, 2000

Gray Davis
Governor
State of California

Marry D. Nichels
Secretary for Resources
The Resources Agency

Thomas M. Hannigan
Director
Department of Water Resources

# STATE OF CALIFORNIA

Gray Davis, Governor

# THE RESOURCES AGENCY

Mary D. Nichols, Secretary for Resources

# **Department of Water Resources**

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Vacant Deputy Director

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# **Division of Flood Management**

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Shawn T. Perkins	Water Resources Technician II

# **COOPERATING AGENCIES**

**Public Agencies** Buena Vista Water Storage District East Bay Municipal Utility District Eldorado Irrigation District Friant Water Users Association Kaweah Delta Water Conservation District Kern Delta Water District Kings River Conservation District Lower Tule River Irrigation District Merced Irrigation District Modesto Irrigation District Nevada Irrigation District North Kem Water Storage District Northern California Power Agency Oakdale Irrigation District Omochumne-Hartnell Water District Oroville-Wyandotte Irrigation District Placer County Water Agency Sacramento Municipal Utility District San Joaquin Exchange Contractors Water Association South San Joaquin Irrigation District Tri-Dam Project Truckee River Basin Water Commission Tulare Lake Basin Water Storage District Turlock Irrigation District Yuba County Water Agency Private Organizations J.G. Boswell Company Kaweah and St. Johns River Association Kings River Water Association

Tule River Association State Water Contractors

**Municipalities** City of Bakersfield Water Department City of Los Angeles Department of Water and Power
City and County of San Francisco Hetch Hetchy Water and Power State Agencies University of California Central Sierra Snow Laboratory Scripps Institution of Oceanography California Department of Forestry & Fire Protection California Department of Water Resources **Public Utilities** Pacific Gas and Electric Company Southern California Edison Company Federal Agencies U.S. Department of Agriculture Forest Service(14 National Forests) Natural Resource Conservation Service

Natural Resource Conservation Service
U.S. Department of Commerce
National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey, Water Resources
National Park Service(3 National Parks)
U.S. Department of Army
Corps of Engineers
Other Cooperative Programs
Nevada Cooperative Snow Surveys
Oregon Cooperative Snow Surveys

# Summary of Water Conditions April 1, 2000

March was a month of contrasts. The month started wet, continuing the stormy pattern of February. By midmonth, the weather had shifted into a dry spring pattern. The snowpack peaked about mid–March then decreased to erase the gains of the first two weeks by the end of the month. Fair and warmer weather and north and northeasterly winds caused some sublimation losses of water from the snow and early melting of the pack especially at lower elevations. With precipitation, snowpack water content, and runoff near average, and reservoir storage above normal, another good water supply year is expected for most California users.

**Forecasts** of April through July runoff call for an average runoff season, slightly above average in the north and slightly below average in the south. Water year runoff is forecasted to be about 105 percent of average compared to actual runoff of 110 percent last year.

**Snowpack** water content is approximately average at 100 percent compared to 110 percent one year ago. The range is relatively small, varying from about 120 percent in the North Coast region to 80 percent in the North Lahontan region. The overall water content seems to have decreased 5 percent during March.

**Precipitation** during March was about two thirds of average for the month. Seasonal precipitation percentages decreased slightly to 95 percent statewide which is the same as last year at this time. Seasonal amounts are somewhat above average in many areas of the north central part of the state but southern California is progressively drier.

**Runoff** so far during this season is also about 100 percent of average, less than the 115 percent reported last year on April 1. March runoff was about 110 percent of average. Estimated runoff of the eight major rivers of the Sacramento and San Joaquin River regions was 4.0 million acre—feet in March.

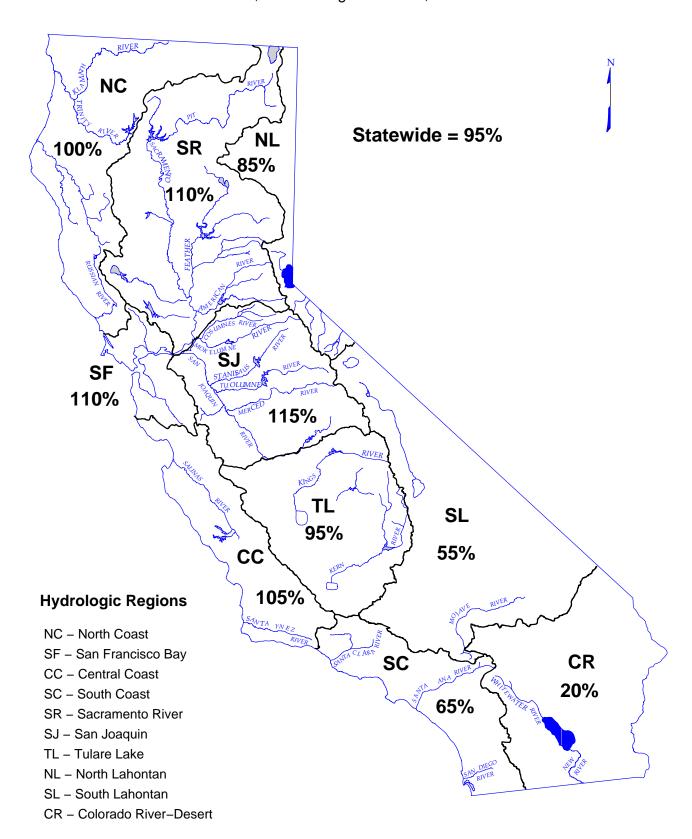
**Reservoir storage** is excellent at 115 percent of average and 79 percent of capacity. This is practically the same as last year and also the year before that in 1998.

# SUMMARY OF WATER CONDITIONS IN PERCENT OF AVERAGE

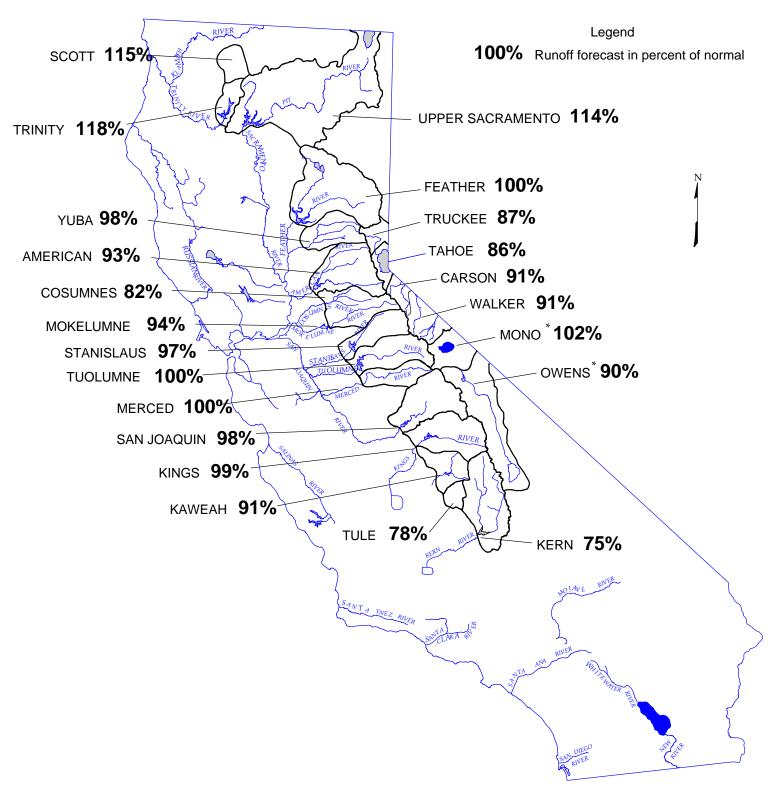
HYDROLOGIC REGION	PRECIPITATION OCTOBER 1 TO DATE	APRIL 1 SNOW WATER CONTENT	APRIL 1 RESERVOIR STORAGE	RUNOFF OCTOBER 1 TO DATE	APR-JULY RUNOFF FORECAST	WATER YEAR RUNOFF FORECAST
NORTH COAST	100	120	110	90	115	105
SAN FRANCISCO BAY	110		120	105		
CENTRAL COAST	105		135	110		
SOUTH COAST	65		110	15		
SACRAMENTO RIVER	110	100	110	110	105	110
SAN JOAQUIN RIVER	115	100	125	110	100	100
TULARE LAKE	95	95	120	80	90	85
NORTH LAHONTAN	85	80	165	85	90	90
SOUTH LAHONTAN	55	90	110	70	95	90
COLORADO RIVER- DESERT	20					
STATEWIDE	95	100	115	100	100	105

# **SEASONAL PRECIPITATION**

IN PERCENT OF AVERAGE TO DATE
October 1, 1999 through March 31, 2000



# FORECAST OF APRIL – JULY UNIMPAIRED SNOWMELT RUNOFF April 1, 2000



<sup>\*</sup> FORECAST BY DEPARTMENT OF WATER AND POWER, CITY OF LOS ANGELES

# **APRIL 1, 2000 FORECASTS APRIL-JULY UNIMPAIRED RUNOFF**

Myther Section   August   Section   August   Section		Unimpaired Runoff in 1,000 Acre-Feet (1)						
Ayg	HYDROLOGIC REGION	н						
SACRAMENTO RIVER   Upper Sacramento River   Upper Sacramento River   Sacramento River at Shasta Lake   392   850   185   460   117%   Reservoir   Reservoir   Reservoir   Sacramento River at Shasta Lake   1,801   3,525   726   2,056   114%   1,690   2,268   Reservoir   Reservoir   Reservoir   Sacramento River at Shasta Lake   1,801   3,525   726   2,056   114%   1,690   2,268   Sacramento River above Bend Bridge, near Red Bluff   2,451   5,075   943   2,720   111%   2,200   3,64   Reservoir   Sacramento River above Bend Bridge, near Red Bluff   2,451   5,075   943   2,720   111%   2,200   3,64   Reservoir   Sacramento River River at Lake Almanor near Prattville   (3)   1,082   2,416   243   1,010   98%   1,001   1,0	and Watershed	50 Yr	Max	Min		Pct		
SACRAMENTO RIVER   Upper Sacramento River   Sacramento River   Sacramento River   Sacramento River   Sacramento River at Shasta Lake   392   950   185   460   117%     McCloud River at Shasta Lake   1,866   2,203   480   1,150   109%   1,600   1,600     Pit River at Shasta Lake   1,866   2,203   480   1,150   109%   1,600   2,686     Total Inflow to Shasta Lake   1,867   2,720   111%   2,200   3,84     Feather River at Lake Almanor near Prattville (3)   333   675   120   330   99%     Feather River at Lake Almanor near Prattville (3)   1,028   2,416   243   1,010   98%   1,000   98%     North Fork at Pulga (3)   1,028   2,416   243   1,010   98%   1,000   98%     North Fork at Ponderosa Dam (3)   110   267   13   1105   95%   1,000   1,500   2,56     Yuba River   North Yuba below Goodyears Bar (3)   110   267   13   1105   95%   1,500   2,56     Yuba River   North Yuba Blow Goodyears Bar (3)   112   236   25   110   98%   1,500   2,56     Yuba River   North Yuba River at Smartville   1,029   2,424   200   1,010   98%   810   1,38     Yuba River   North Fork at North Fork Dam (3)   223   481   57   220   94%   810   1,38     American River   North Fork Album (3)   522   1,466   100   470   99%   810   1,38     American River   North Fork Album (3)   522   1,466   100   470   99%   810   1,58     SAN JOAQUIN RIVER   Cosumes River at Michigan Bar   128   363   8   105   82%   65   17     Modele Fork near Abubm (5)   530   540   5		Avg				of		
Upper Sacramento River   Sacramento River at Shasta Lake (3)		(2)	Record	Record		Avg	Rang	e (1)
Sacramento River at Shasta Lake (3)	SACRAMENTO RIVER							
McCloud River at Shasta Lake								
Pit River at Shasta Lake								
Total Inflow to Shasta Lake   1.801   3.525   726   2.050   114%   1.690   2.68								
Sacramento River above Bend Bridge, near Red Bluff   2,451   5,075   943   2,720   111%   2,200   - 3,64     Feather River   Feather River at Lake Almanor near Prattville (3)   333   675   120   330   99%     North Fork at Pulga (3)   86   518   4   85   99%     South Fork at Ponderosa Dam (3)   110   267   13   105   35%     South Fork at Ponderosa Dam (3)   110   267   13   105   35%     South Fork at Ponderosa Dam (3)   110   267   13   105   35%     South Fork at Ponderosa Dam (3)   110   267   13   105   35%     South Fork at Ponderosa Dam (3)   286   647   51   280   98%     Inflow to Jackson Mdws and Bowman Reservoirs (3)   112   236   25   110   98%     South Yuba at Langs Crossing (3)   233   481   57   220   94%     Yuba River   300   2424   200   1,010   98%   810   - 1,38     American River   North Fork Dam (3)   252   1,406   100   470   90%     Middle Fork near Aubrum (3)   522   1,406   100   470   93%   960   - 1,65     SAN JOAQUIN RIVER   Cosumens River at Michigan Bar   128   363   8   105   82%   65   - 17     Mokelumne River   North Fork near West Point (6)   437   829   104   380   87%     Total Inflow to Pardee Reservoir   459   1,065   102   430   94%   350   - 56     Statistus River   Middle Fork helow Beardsley Dam (3)   234   702   64   310   93%     Total Inflow to McKays Point Dam (3)   234   702   64   310   93%     Total Inflow to New Melones Reservoir   699   1,710   116   680   97%   560   90     Tuolumne River   Cherry Creek & Eleanor Creek near Hetch Hetchy (3)   322   727   97   310   96%     Total Inflow to Don Pedro Reservoir   1,184   2,682   301   1,180   100%   1,030   - 1,500     Merced River   Pohono Bridge (3)   362   888   80   370   102%     Total Inflow to Don Pedro Reservoir   1,184   2,682   301   1,180   100%   1,030   - 1,500     Merced River   Pohono Bridge (3)   362   888   80   370   102%     Total Inflow to Don Pedro Reservoir   1,184   2,682   301   1,180   100%   1,030   - 1,500     Merced River   Merced River at Mammonth Pool (6)   202   511   58   100							1 600	2 690
Feather River   Feather River at Lake Almanor near Prattville (3)								
Feather River at Lake Almanor near Prattville (3)		2,451	5,075	943	2,720	11170	2,200 -	3,040
North Fork at Pulga (3)		333	675	120	330	00%		
Middle Fork near Citio (4)								
South Fork at Ponderosa Dam (3)								
Total Inflow to Oroville Reservoir  Yuba River North Yuba below Goodyears Bar (3) Inflow to Jackson Mdws and Bowman Reservoirs (3) 112 236 25 110 88% Inflow to Jackson Mdws and Bowman Reservoirs (3) 112 236 25 110 88% South Yuba at Langs Crossing (3) 23 481 57 220 94% Yuba River at Smartville 1,029 2,424 200 1,010 98% 810 - 1,38  American River North Fork at North Fork Dam (3) 522 1,406 100 470 90% Middle Fork near Auburn (3) 522 1,406 100 470 90% Middle Fork near Auburn (3) 173 386 37 150 87% Total Inflow to Folsom Reservoir 1,261 3,074 229 1,170 93% 960 - 1,65  SAN JOAQUIN RIVER Cosumnes River at Michigan Bar 128 363 8 105 82% 65 - 17  Mokelumne River North Fork near West Point (5) 437 829 1,065 102 430 94% 350 - 56  Sanislaus River Middle Fork below Beardsley Dam (3) 334 702 64 310 93% North Fork Inflow to McKays Point Dam (3) 224 503 34 200 89% Total Inflow to New Melones Reservoir 699 1,710 116 680 97% 560 - 90  Tuolumne River Cherry Creek & Eleanor Creek near Hetch Hetchy (3) 322 727 97 310 96% Total Inflow to New Melones Reservoir 1,184 2,682 301 1,180 100% 1,030 - 1,500  Merced River Merced River at Pohono Bridge (3) 362 888 80 370 102% Total Inflow to Don Pedro Reservoir 1,184 2,682 301 1,180 100% 530 - 80  Merced River Alexen Merculate (6) 95 264 11 90 98% Total Inflow to Lake McClure 611 1,587 123 610 100% 530 - 80  Total Inflow to Lake McClure 611 1,587 123 610 100% 530 - 80  Total Inflow to Millerton Lake (6) 95 264 11 90 98% Total Inflow to Millerton Lake (6) 95 264 11 90 98% Total Inflow to Riper Pear Cliff Camp (3) 239 565 50 240 100% Total Inflow to Pine Flat Reservoir 1,183 3,114 273 1,170 99% 1,010 - 1,44  Kawaen River at Pohono Bridge (3) 37 1,203 83 270 72%								
North Yuba below Goodyears Bar (3)		1,831	4,676				1,500 -	2,560
Inflow to Jackson Mdws and Bowman Reservoirs (3)	Yuba River							
South Yuba at Langs Crossing (3)	North Yuba below Goodyears Bar (3)	286	647	51	280	98%		
Yuba River at Šmartville				25	110	98%		
American River   North Fork at North Fork Dam (3)   522   1,406   100   470   90%   Silver Creek Below Camino Diversion Dam (3)   1,261   3,074   229   1,170   93%   960   - 1,65   1								
North Fork at North Fork Dam (3)   522   1,406   100   470   90%   Middle Fork near Auburn (3)   522   1,406   100   470   90%   Silver Creek Below Camino Diversion Dam (3)   173   386   37   150   87%   Total Inflow to Folsom Reservoir   1,261   3,074   229   1,170   93%   960   - 1,655		1,029	2,424	200	1,010	98%	810 -	1,380
Middle Fork near Auburn (3)   522								
Silver Creek Below Camino Diversion Dam (3)	* *							
Total Inflow to Folsom Reservoir   1,261 3,074 229 1,170 93% 960 - 1,65								
SAN JOAQUIN RIVER   Cosumnes River at Michigan Bar   128   363   8   105   82%   65   17   Mokelumne River   North Fork near West Point (5)   437   829   104   380   87%   Total Inflow to Pardee Reservoir   459   1,065   102   430   94%   350   56   Stanislaus River   Middle Fork below Beardsley Dam (3)   334   702   64   310   93%   North Fork Inflow to McKays Point Dam (3)   224   503   34   200   889%   Total Inflow to New Melones Reservoir   699   1,710   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   680   97%   560   90   1700   116   11	` ,						060	1 650
Cosumnes River at Michigan Bar   128   363   8   105   82%   65   - 17		1,201	3,074	229	1,170	9370	900 -	1,030
Mokelumne River         North Fork near West Point (5)         437         829         104         380         87%           Total Inflow to Pardee Reservoir         459         1,065         102         430         94%         350         - 56           Stanislaus River         Middle Fork below Beardsley Dam (3)         334         702         64         310         93%         North Fork Inflow to McKays Point Dam (3)         224         503         34         200         89%         560         - 90           Total Inflow to New Melones Reservoir         699         1,710         116         680         97%         560         - 90           Tuolumne River         Cherry Creek & Eleanor Creek near Hetch Hetchy (3)         322         727         97         310         96%         100         99%         100         1,00         1,00         99%         1,00         1,00         1,00         1,50         1,00	SAN JOAQUIN RIVER							
North Fork near West Point (5)	Cosumnes River at Michigan Bar	128	363	8	105	82%	65 -	175
Total Inflow to Pardee Reservoir								
Stanislaus River   Middle Fork below Beardsley Dam (3)   334   702   64   310   93%   North Fork Inflow to McKays Point Dam (3)   224   503   34   200   89%   Total Inflow to New Melones Reservoir   699   1,710   116   680   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   97%   560   900   9	• • • • • • • • • • • • • • • • • • • •							
Middle Fork below Beardsley Dam (3)         334         702         64         310         93%           North Fork Inflow to McKays Point Dam (3)         224         503         34         200         89%           Total Inflow to New Melones Reservoir         699         1,710         116         680         97%         560         -         90           Tuolumne River           Cherry Creek & Eleanor Creek near Hetch Hetchy (3)         322         727         97         310         96%         1,00         1,00         99%         1,00         1,00         1,00         99%         1,00         1,0		459	1,065	102	430	94%	350 -	560
North Fork Inflow to McKays Point Dam (3)		00.4	700	0.4	040	000/		
Total Inflow to New Melones Reservoir  Tuolumne River Cherry Creek & Eleanor Creek near Hetch Hetchy (3) 322 727 97 310 96% Tuolumne River near Hetch Hetchy (3) 606 1,392 153 600 99% Total Inflow to Don Pedro Reservoir 1,184 2,682 301 1,180 100% 1,030 - 1,500  Merced River Merced River at Pohono Bridge (3) 362 888 80 370 102% Total Inflow to Lake McClure 611 1,587 123 610 100% 530 - 800  San Joaquin River San Joaquin River at Mammoth Pool (6) 1,014 2,279 235 970 96% Big Creek below Huntington Lake (6) 95 264 11 90 95% South Fork near Florence Lake (6) 202 511 58 190 94% Total Inflow to Millerton Lake (6) 202 511 58 190 94% Total Inflow to Millerton Lake 1,212 3,355 262 1,190 98% 1,020 - 1,500  TULARE LAKE Kings River North Fork Kings River near Cliff Camp (3) 239 565 50 240 100% Total Inflow to Pine Flat Reservoir 1,183 3,114 273 1,170 99% 1,010 - 1,440  Kaweah River at Terminus Reservoir 276 814 61 250 91% 215 - 33  Tule River at Success Reservoir 59 259 2 46 78% 36 - 7  Kern River Kern River near Kernville (3) 373 1,203 83 270 72%								
Tuolumne River   Cherry Creek & Eleanor Creek near Hetch Hetchy (3)   322   727   97   310   96%   Tuolumme River near Hetch Hetchy (3)   606   1,392   153   600   99%   Total Inflow to Don Pedro Reservoir   1,184   2,682   301   1,180   100%   1,030   - 1,500   1,000   1,000   1,000   1,000   - 1,500   1,000   1,000   1,000   - 1,500   1,000   1,000   1,000   - 1,500   1,000   1,000   1,000   - 1,500   1,000   1,000   1,000   1,000   - 1,500   1,000   1,000   1,000   - 1,500   1,000   1							560	000
Cherry Creek & Eleanor Creek near Hetch Hetchy (3)		099	1,710	110	660	91%	560 -	900
Tuolumme River near Hetch Hetchy (3) Total Inflow to Don Pedro Reservoir 1,184 2,682 301 1,180 100% 1,030 - 1,500  Merced River Merced River at Pohono Bridge (3) Total Inflow to Lake McClure 611 1,587 123 610 100% 530 - 800  San Joaquin River San Joaquin River at Mammoth Pool (6) Big Creek below Huntington Lake (6) South Fork near Florence Lake (6) Total Inflow to Millerton Lake  Kings River North Fork Kings River near Cliff Camp (3) Total Inflow to Pine Flat Reservoir Tula River at Success Reservoir Kern River Kern River near Kernville (3)  362 888 80 370 102% 610 100% 530 - 800 611 1,587 123 610 100% 612 202 888 80 370 102% 614 100% 530 - 800 615 202 610 100% 616 202 511 58 190 95% 617 202 511 58 190 94% 618 202 511 58 190 94% 619 202 511 58 190 94% 619 202 511 58 190 94% 619 202 511 58 190 94% 619 202 611 58 190 94% 619 202 611 61 61 61 61 61 61 61 61 61 61 61 61		322	727	97	310	06%		
Total Inflow to Don Pedro Reservoir  Merced River  Merced River at Pohono Bridge (3)  Total Inflow to Lake McClure  San Joaquin River  San Joaquin River  San Joaquin River at Mammoth Pool (6)  Big Creek below Huntington Lake (6)  South Fork near Florence Lake (6)  Total Inflow to Millerton Lake  Xings River  North Fork Kings River near Cliff Camp (3)  Total Inflow to Pine Flat Reservoir  Nature At Sunday River  North Fork Kings River at Terminus Reservoir  Tule River at Success Reservoir  Kern River  Kern River  Kern River  Merced River  1,184  2,682  301  1,180  100%  1,010  1,500  100%  373  1,180  100%  100%  370  102%  100%  370  102%  100%  100%  100%  1,014  2,279  235  970  96%  96%  96%  96%  96%  96%  96%  96								
Merced River         Merced River at Pohono Bridge (3)         362         888         80         370         102%           Total Inflow to Lake McClure         611         1,587         123         610         100%         530         -         80           San Joaquin River         San Joaquin River at Mammoth Pool (6)         1,014         2,279         235         970         96%         96%         96%         95         264         11         90         95%         96%         95%         264         11         90         95% </td <td>• , ,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>1.030 -</td> <td>1,500</td>	• , ,						1.030 -	1,500
Merced River at Pohono Bridge (3)       362       888       80       370       102%         Total Inflow to Lake McClure       611       1,587       123       610       100%       530       -       80         San Joaquin River       San Joaquin River at Mammoth Pool (6)       1,014       2,279       235       970       96%       96%       95       264       11       90       95%       1,020       - 1,50       96%       1,020       - 1,50       1,50       1,00       98%       1,020       - 1,50       1,50       1,50       1,100       98%       1,020       - 1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50       1,50		.,	_,00_		1,100	.0070	.,000	.,000
Total Inflow to Lake McClure 611 1,587 123 610 100% 530 - 80  San Joaquin River  San Joaquin River at Mammoth Pool (6) 1,014 2,279 235 970 96% Big Creek below Huntington Lake (6) 95 264 11 90 95% South Fork near Florence Lake (6) 202 511 58 190 94% Total Inflow to Millerton Lake 1,212 3,355 262 1,190 98% 1,020 - 1,50  TULARE LAKE  Kings River  North Fork Kings River near Cliff Camp (3) 239 565 50 240 100% Total Inflow to Pine Flat Reservoir 1,183 3,114 273 1,170 99% 1,010 - 1,44  Kaweah River at Terminus Reservoir 276 814 61 250 91% 215 - 33  Tule River at Success Reservoir 59 259 2 46 78% 36 - 7  Kern River  Kern River near Kernville (3) 373 1,203 83 270 72%		362	888	80	370	102%		
San Joaquin River         San Joaquin River at Mammoth Pool (6)       1,014       2,279       235       970       96%         Big Creek below Huntington Lake (6)       95       264       11       90       95%         South Fork near Florence Lake (6)       202       511       58       190       94%         Total Inflow to Millerton Lake       1,212       3,355       262       1,190       98%       1,020       -       1,50         TULARE LAKE         Kings River       Kings River       8       565       50       240       100%       100%       1,010       -       1,44         Kaweah River at Terminus Reservoir       1,183       3,114       273       1,170       99%       1,010       -       1,44         Kaweah River at Terminus Reservoir       276       814       61       250       91%       215       -       33         Tule River at Success Reservoir       59       259       2       46       78%       36       -       7         Kern River       373       1,203       83       270       72%							530 -	800
San Joaquin River at Mammoth Pool (6)       1,014       2,279       235       970       96%         Big Creek below Huntington Lake (6)       95       264       11       90       95%         South Fork near Florence Lake (6)       202       511       58       190       94%         Total Inflow to Millerton Lake       1,212       3,355       262       1,190       98%       1,020 - 1,50         TULARE LAKE         Kings River         North Fork Kings River near Cliff Camp (3)       239       565       50       240       100%         Total Inflow to Pine Flat Reservoir       1,183       3,114       273       1,170       99%       1,010 - 1,44         Kaweah River at Terminus Reservoir       276       814       61       250       91%       215 - 33         Tule River at Success Reservoir       59       259       2       46       78%       36 - 7         Kern River       Kern River near Kernville (3)       373       1,203       83       270       72%	San Joaquin River							
South Fork near Florence Lake (6)   202   511   58   190   94%     Total Inflow to Millerton Lake   1,212   3,355   262   1,190   98%   1,020 - 1,500		1,014	2,279	235	970	96%		
Total Inflow to Millerton Lake 1,212 3,355 262 1,190 98% 1,020 - 1,500  TULARE LAKE  Kings River  North Fork Kings River near Cliff Camp (3) 239 565 50 240 100%  Total Inflow to Pine Flat Reservoir 1,183 3,114 273 1,170 99% 1,010 - 1,440  Kaweah River at Terminus Reservoir 276 814 61 250 91% 215 - 330  Tule River at Success Reservoir 59 259 2 46 78% 36 - 7  Kern River  Kern River near Kernville (3) 373 1,203 83 270 72%	Big Creek below Huntington Lake (6)		264					
TULARE LAKE         Kings River       Kings River         North Fork Kings River near Cliff Camp (3)       239       565       50       240       100%         Total Inflow to Pine Flat Reservoir       1,183       3,114       273       1,170       99%       1,010 - 1,44         Kaweah River at Terminus Reservoir       276       814       61       250       91%       215 - 33         Tule River at Success Reservoir       59       259       2       46       78%       36 - 7         Kern River       Kern River near Kernville (3)       373       1,203       83       270       72%								
Kings River       North Fork Kings River near Cliff Camp (3)       239       565       50       240       100%         Total Inflow to Pine Flat Reservoir       1,183       3,114       273       1,170       99%       1,010 - 1,44         Kaweah River at Terminus Reservoir       276       814       61       250       91%       215 - 33         Tule River at Success Reservoir       59       259       2       46       78%       36 - 7         Kern River         Kern River near Kernville (3)       373       1,203       83       270       72%		1,212	3,355	262	1,190	98%	1,020 -	1,500
North Fork Kings River near Cliff Camp (3)       239       565       50       240       100%         Total Inflow to Pine Flat Reservoir       1,183       3,114       273       1,170       99%       1,010 - 1,44         Kaweah River at Terminus Reservoir       276       814       61       250       91%       215 - 33         Tule River at Success Reservoir       59       259       2       46       78%       36 - 7         Kern River         Kern River near Kernville (3)       373       1,203       83       270       72%	TULARE LAKE							
Total Inflow to Pine Flat Reservoir 1,183 3,114 273 1,170 99% 1,010 - 1,44  Kaweah River at Terminus Reservoir 276 814 61 250 91% 215 - 33  Tule River at Success Reservoir 59 259 2 46 78% 36 - 7  Kern River  Kern River near Kernville (3) 373 1,203 83 270 72%								
Kaweah River at Terminus Reservoir       276       814       61       250       91%       215 - 33         Tule River at Success Reservoir       59       259       2       46       78%       36 - 7         Kern River       Kern River near Kernville (3)       373       1,203       83       270       72%					_			
Tule River at Success Reservoir       59       259       2       46       78%       36 - 7         Kern River       Kern River near Kernville (3)       373       1,203       83       270       72%								1,440
Kern River Kern River near Kernville (3) 373 1,203 83 270 72%	Kaweah River at Terminus Reservoir	276		61	250	91%	215 -	330
Kern River near Kernville (3) 373 1,203 83 270 72%	Tule River at Success Reservoir	59	259	2	46	78%	36 -	74
I otal Inflow to Isabella Reservoir 442 1,657 84 <b>330</b> 75% 270 - 46								
	Total Inflow to Isabella Reservoir	442	1,657	84	330	75%	270 -	460

<sup>(1)</sup> See inside back cover for definition(2) All 50 year averages are based on years 1946-1995 unless otherwise not(3) 50 year average based on years 1941-9

<sup>(4) 44</sup> year average based on years 1936-79 (5) 36 year average based on years 1936-7 (6) 45 year average based on years 1936-8

# APRIL 1, 2000 FORECASTS WATER YEAR UNIMPAIRED RUNOFF

	WATER YEAR UNIMPAIRED RUNOFF Unimpaired Runoff in 1,000 Acre-Feet (1)													
	STORICA				-	DISTRI		,					ECAST	
50 Yr Avg	Max of	Min of	Oct Thru	Feb	Mar	Apr	May	Jun	Jul	Aug &	Water Year	Pct of	80 ° Proba	
(2)	Record	Record	Jan*	*	*	7 (5)	iviay	Jun	- Cui	Sep	Forecasts	Avg	Range	
856 1,184	1,964 2,353	165 577												
3,078 5,896	5,647 10,796	1,484 2,479	1.785	1,545	1,090	840	590	360	260	480	6,950	118%	6,500 -	7,680
8,518	17,180	3,294		2,500		1,130	770	480	340	590	10,000	117%	9,360 -	
780 2,417 219 291 4,526	1,269 4,400 637 562 9,492	366 666 24 32 994	820	980	755	760	650	290	140	185	4,580	101%	4,200 -	5,380
564 181 379 2,337	1,056 292 565 4,926	102 30 98 369	330	525	365	410	400	160	40	40	2,270	97%	2,070 -	2,670
616 1,070 318 2,674	1,234 2,575 705 6,381	66 144 59 349	400	680	430	450	460	210	50	30	2,710	101%	2,490 -	3,220
378	1,253	20	60	153	76	55	35	12	3	1	395	104%	350 -	470
626 736	1,009 1,800	197 129	75	110	95	130	190	100	10	5	715	97%	630 -	850
471	929	88												
1,131	2,952	155	130	190	160	210	270	160	40	20	1,180	104%	1,060 -	1,420
461 770 1,857	1,147 1,661 4,430	123 258 383	170	275	255	300	450	350	80	30	1,910	103%	1,750 -	2,250
461 952	1,020 2,859	92 150	70	175	115	160	250	160	40	10	980	103%	900 -	1,190
1,337 112 248 1,753	2,964 298 653 4,642	308 14 71 362	120	155	165	260	440	360	130	60	1,690	96%	1,510 -	2,030
1,753	4,042	302	120	100	100	∠00	440	300	130	60	1,090	90%	1,510 -	2,030
284 1,647 431 135	607 4,294 1,402 615	58 383 92 16	85 22 11	110 42 25	120 52 27	230 70 22	440 100 16	380 65 6	120 15 2	55 9 1	1,540 375 110	94% 87% 81%	1,370 - 330 - 100 -	1,840 460 140
558 694	1,577 2,309	163 175	55	30	45	80	120	90	40	30	490	71%	420 -	650

<sup>\*</sup> Indicates observed runoff

# APRIL 1, 2000 FORECASTS APRIL-JULY UNIMPAIRED RUNOFF

HYDROLOGIC REGION	Unimpaired Runoff in 1,000 Acre-Feet (1) HISTORICAL FORECAST							
and Watershed	50 Yr Avg (2)	Max of Record	Min of Record	Apr-Jul Forecasts	Pct of Avg			
NORTH COAST								
Trinity River Total Inflow to Lewiston Lake	642	1,593	80	760	1189			
Scott River Near Fort Jones	200	n/a	n/a	230	115			
Klamath River Total inflow to Upper Klamath Lake (3)	509	758	280	450	889			
NORTH LAHONTAN								
Truckee River								
Lake Tahoe to Farad accretions Lake Tahoe Rise (assuming gates closed, in feet)	264 1.4	713 3.6	58 0.2	230 1.2	87° 86°			
Carson River								
West Fork at Woodfords East Fork near Gardnerville	54 183	135 407	12 43	50 165	93 <sup>1</sup> 90			
Walker River								
West Fork near Coleville East Fork near Bridgeport	143 61	330 209	35 7	130 55	91 90			
SOUTH LAHONTAN								
Owens River Total tributary flow to Owens River (4)	226	579	96	204	909			

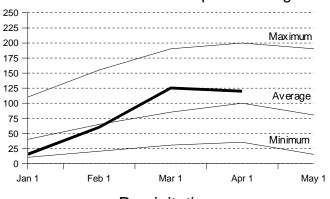
<sup>(1)</sup> See inside back cover for definition

<sup>(2)</sup> All 50 year averages are based on years 1946-1995 unless otherwise not

<sup>(3)</sup> Forecast by U.S. Natural Resources Conservation Service and National Weather Service California-Nevada River Forecast Cer April through Septembe forecast, 30 year average based on years 1961-199

<sup>(4)</sup> Forecast by Department of Water and Power, City of Los Angele

# Water Content in % of April 1 Average

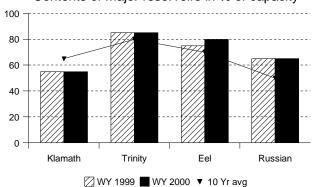


# Precipitation

# October 1 to date in % of Average 250 225 200 175 150 125 100 75 50 25 0 Smith Trinity Eel Russian

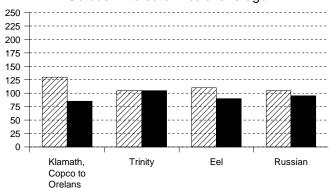
# Reservoir Storage

# Contents of major reservoirs in % of capacity



# Runoff

## October 1 to date in % of average



# NORTH COAST REGION

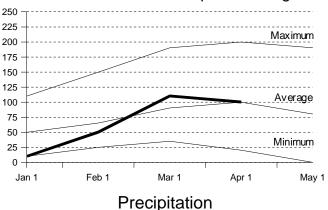
**SNOWPACK**— First of the month measurements made at 17 snow courses indicate an area wide snow water equivalent of 35.2 inches. This is 120 percent of the April 1 average. Last year at this time the pack was holding 43.8 inches of water.

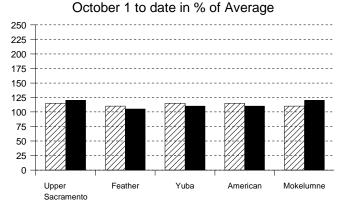
**PRECIPITATION** – Seasonal precipitation (October 1 through the end of last month) on this area was 100 percent of normal. Precipitation last month was about 55 percent of the monthly average. Seasonal precipitation at this time last year stood at 125 percent of normal.

**RESERVOIR STORAGE**– First of the month storage in 7 reservoirs was 2.6 million acre–feet which is 110 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

**RUNOFF** –Seasonal runoff of streams draining the area totaled 8.5 million acre–feet which is 90 percent of the average for this period. Last year, runoff for the same period was 115 percent of average.

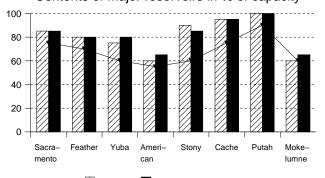
# Water Content in % of April 1 Average





# Reservoir Storage

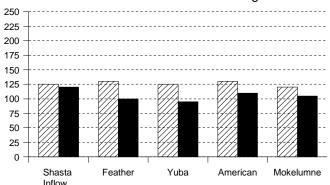
# Contents of major reservoirs in % of capacity



# 

# Runoff

# October 1 to date in % of average



# SACRAMENTO RIVER REGION

**SNOWPACK**– First of the month measurements made at 82 snow courses indicate an area wide snow water equivalent of 30.2 inches. This is 100 percent of the April 1 average. Last year at this time the pack was holding 37.4 inches of water.

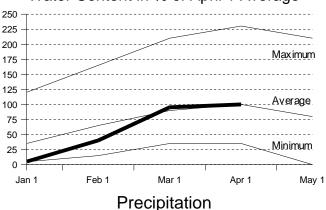
**PRECIPITATION** – Seasonal precipitation (October 1 through the end of last month) on this area was 110 percent of normal. Precipitation last month was about 65 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal.

**RESERVOIR STORAGE**– First of the month storage in 43 reservoirs was 13.1 million acre–feet which is 110 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 105 percent of average.

**RUNOFF** – Seasonal runoff of streams draining the are totaled 11.8 million acre–feet which is 110 percent of average for this period. Last year, runoff for the same period was 120 percent of average.

The Sacramento Region 40–30–30 Water Supply Index is forecast to be 9.2 assuming median meteorological conditions for the remainder of the year. This classifies the year as "wet" in the Sacramento Valley according to the State Water Resources Control Board.

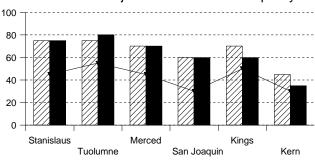
# Water Content in % of April 1 Average



# October 1 to date in % of Average 250 225 200 175 150 125 100 75 50 25 0 Stanislaus Merced Kings Tule Tuolumne San Joaquin Kaweah Kern

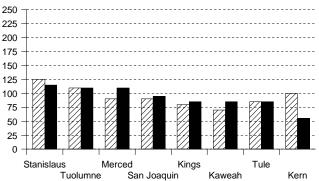
# Reservoir Storage

# Contents of major reservoirs in % of capacity



# Runoff

# October 1 to date in % of average



# SAN JOAQUIN RIVER AND TULARE LAKE REGIONS

**SNOWPACK**– First of the month measurements made at 70 **San Joaquin Region** snow courses indicate an area wide snow water equivalent of 31.2 inches. This is 100 percent of the April 1 average. Last year at this time the pack was holding 32.2 inches of water.

At the same time 46 **Tulare Lake Region** snow courses indicated a basin–wide snow water equivalent of 23.2 inches which is 100 percent of the average for April 1. Last year at this time the basin was holding 14.4 inches of water.

PRECIPITATION – Seasonal precipitation (October 1 through the end of last month) on the San Joaquin Region was 115 percent of normal. Precipitation last month was about 50 percent of the monthly average. Seasonal precipitation at this time last year stood at 95 percent of normal. Seasonal precipitation on the Tulare Lake Region was 95 percent of normal. Precipitation last month was about 80 percent of the monthly average. Seasonal precipitation at this time last year stood at 75 percent of normal.

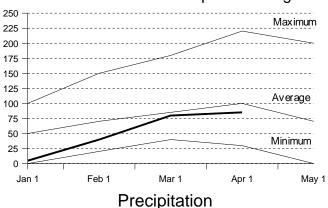
**RESERVOIR STORAGE**– First of the month storage in 33 **San Joaquin Region** reservoirs was 8.9 million acre–feet which is 125 percent of average. About 80 percent of available capacity was being used. Storage in these reservoirs at this time last year was 125 percent of average. First of the month storage in 6 **Tulare Lake Region** reservoirs was 1.0 million acre–feet which is 120 percent of average and about 50 percent of available capacity. Storage in these reservoirs at this time last

**RUNOFF**– Seasonal runoff of streams draining the San Joaquin Region totaled 2.5 million acre–feet which is 110 percent of average for this period. Last year, runoff for the same period was 110 percent of average. Seasonal runoff of streams draining the Tulare Lake Basin totaled 635 thousand acre–feet which is 80 percent of average for this period. Last year runoff for this same period was 85 percent of average.

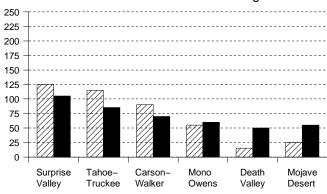
year was 140 percent of average.

The San Joaquin Region 60–20–20 Water Supply Index is forecast to be 3.3 assuming median meteorological conditions. This classifies the year as "above normal" in the San Joaquin Region according to the State Water Resources Control Board.

# Water Content in % of April 1 Average

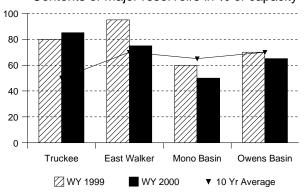


# October 1 to date in % of Average



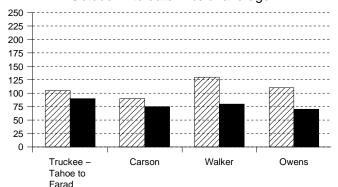
# Reservoir Storage

Contents of major reservoirs in % of capacity



# Runoff

October 1 to date in % of average



# NORTH AND SOUTH LAHONTAN REGIONS

**SNOWPACK**– First of the month measurements made at 16 **North Lahontan snow** courses indicate an area wide snow water equivalent of 23.6 inches. This is 80 percent of the April 1 average. Last year at this time the pack was holding 28.3 inches of water. At the same time 22 **South Lahontan Region** snow courses indicated a basin–wide snow water equivalent of 19.6 inches which is 90 percent of the average for April 1. Last year at this time the basin was holding 16.4 inches of water.

PRECIPITATION – Seasonal precipitation (October 1 through the end of last month) on the North Lahontan was 85 percent of normal. Precipitation last month was about 40 percent of the monthly average. Seasonal precipitation at this time last year stood at 110 percent of normal. Seasonal precipitation on the South Lahontan was 55 percent of normal. Precipitation last month was about 100 percent of the monthly average. Seasonal precipitation at this time last year stood at 30 percent of normal.

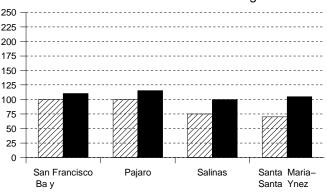
**RESERVOIR STORAGE**– First of the month storage in 5 **North Lahontan** reservoirs was 907 thousand acre–feet which is 165 percent of average. About 85 percent of available capacity was being used. Storage in these reservoirs at this time last year was 145 percent of average. Lake Tahoe was 5.2 feet above its natural rim on April 1. First of the month storage in 8 **South Lahontan** reservoirs was 300 thousand acre–feet which is 110 percent of average and about 75 percent of available capacity. Storage in these reservoirs at this time last year was 105 percent of average.

**RUNOFF**– Seasonal runoff of streams draining the **North Lahontan Region** totaled 230 thousand acrefeet which is 85 percent of average for this period. Last year, runoff for the same period was 105 percent of average.

Seasonal runoff of the Owens River in the **South Lahontan** totaled 48 thousand acre–feet which is 70 percent of average for this period. Last year runoff for this same period was 110 percent of average.

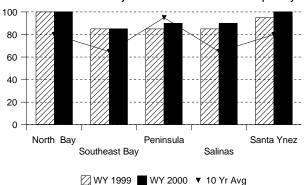
# Precipitation

# October 1 to date in % of Average



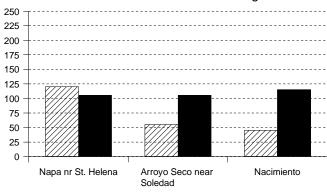
# Reservoir Storage

# Contents of major reservoirs in % of capacity



# Runoff

# October 1 to date in % of average



# SAN FRANCISCO BAY AND CENTRAL COAST REGIONS

**PRECIPITATION** – Seasonal precipitation (October 1 through the end of last month) on the **San Francisco Bay Region** was 110 percent of normal. Precipitation last month was about 80 percent of the monthly average. Seasonal precipitation at this time last year stood at 100 percent of normal.

Seasonal precipitation on the **Central Coast Region** was 105 percent of normal. Precipitation last month was about 80 percent of the monthly average. Seasonal precipitation at this time last year stood at 85 percent of normal.

**RESERVOIR STORAGE**– First of the month storage in 18 **San Francisco Bay Region** reservoirs was 620 thousand acre–feet which is 120 percent of average. About 90 percent of available capacity was being used. Storage in these reservoirs at this time last year was 115 percent of average.

First of the month storage in 6 **Central Coast Region** reservoirs was 895 thousand acre–feet which is 135 percent of average and about 90 percent of available capacity. Storage in these reservoirs at this time last year was 130 percent of average.

**RUNOFF**– Seasonal runoff of the Napa River in the **San Francisco Bay Region** totaled 63 thousand acre–feet which is 105 percent of average for this period. Last year, runoff for the same period was 120 percent of average.

Seasonal runoff of streams draining the **Central Coast Region** totaled 305 thousand acre–feet which is 110 percent of average for this period. Last year runoff for this same period was 50 percent of average.

# SOUTH COAST AND COLORADO RIVER REGIONS

**PRECIPITATION** – October through March (seasonal) precipitation on the **South Coast Region** is 65 percent of normal. March precipitation was 75 percent of the monthly average. Seasonal precipitation at this time last year was 50 percent of normal. Seasonal precipitation on the **Colorado River–Desert Region** is 20 percent of normal. March precipitation was 75 percent of the monthly average. Seasonal precipitation at this time last year stood at 25 percent of average.

**RESERVOIR STORAGE** – April 1 storage in 29 major **South Coast Region** reservoirs is 1.5 million acrefeet or 110 percent of average. About 75 percent of available capacity is being used. Storage in these reservoirs at this time last year was 120 percent of average.

On March 31 combined storage in Lakes Powell, Mead, Mohave and Havasu was about 48 million acre-feet or about 120 percent of average. About 90 percent of available capacity was in use. Last year at this time, these reservoirs were storing 120 percent of average.

**RUNOFF** – Seasonal runoff from selected **South Coast Region** streams totaled 6 thousand acre–feet which is 15 percent of average. Seasonal runoff from these streams last year was 40 percent of average.

**COLORADO RIVER** – The April –July inflow to Lake Powell is forecast to be 6.6 million acre–feet, which is 85 percent of average. The April 1 snowpack in the Colorado River basin above Lake Powell is 90 percent of average, highest in the Upper Colorado at 105 percent and lowest in the San Juan at 62 percent.

# CENTRAL VALLEY PROJECT

Based on April 1 conditions, Bureau of Reclamation water year forecasts for unimpaired runoff to CVP reservoirs are: Trinity–126% of average, Shasta–124% of average, American–105% of average, Stanislaus–106% of average, San Joaquin above Friant–101% of average. As of March 31, 2000 CVP storage was 9.5 million acrefeet which is equal with storage compared to one year ago, and is approximately 117% of normal for that date.

The Bureau of Reclamation announced preliminary water allocations for the CVP contractors in March 2000. Based on conservative water supply forecasts prepared from information available March 1, 2000 CVP water allocations were: Agricultural contractors North of Delta –100% and South of Delta–60%; Urban contractors North of Delta–100% South of Delta 85%; Sacramento River water rights and San Joaquin Exchange Contractors–100%; Wildlife Refuges–100%. Stanislaus Contractors –90,000 acre–feet. Friant Contractors– Class 1–100%; Class II to be seasonally determined. Updated allocations will be announced in Mid–April.

# STATE WATER PROJECT

Total storage in the major SWP reservoirs was about 4.6 MAF on March 31, 2000, compared with 4.6 MAF at this time in 1999. The average storage in the major SWP reservoirs at the end of March is about 4.2 MAF. The March 31 storage at Lake Oroville was about 2.8 MAF as compared to about 2.9 MAF last year.

The State's share of San Luis Reservoir storage was full (1.06 MAF)as it was at this time last year. The USBR share of San Luis Reservoir filled on March 23, 2000. The combined storage of our southern reservoirs was about 652,609 AF on March 31 as compared with 626,000 AF at this same time last year.

SWP water deliveries for 2000 through March were about 662,900 AF. This is a combination of project, transfer, and exchange waters. This is about 324,500 AF more than that delivered during the same period in 1999.

State Water Project water delivery allocations for 2000 were increased to 100% (3.6 million acre-feet).

# MAJOR WATER DISTRIBUTION PROJECTS RESERVOIR STORAGE

(AVERAGES BASED ON 1946-95 OR PERIOD RECORD)

RESERVOIR	CAPACITY 1,000 AF	AVERAGE STORAGE 1,000 AF	1999 1,000 AF	2000	AGE AT END PERCENT AVERAGE	PERCENT				
STATE WATER PROJECT Lake Oravilla 3 539 3 769 3 041 3 930 1039 909										
Lake Oroville	3,538	2,768	2,941	2,839	103%	80%				
San Luis Reservoir (SWF	•	966	1,062	1,062	110%	100%				
Lake Del Valle	77	37	37	39	106%	51%				
Lake Silverwood	73	67	70	91	136%	124%				
Pyramid Lake	171	161	167	165	102%	96%				
Castaic Lake	324	270	269	299	111%	92%				
Perris Lake	131	118	124	119	101%	90%				
CENTRAL VALLEY PRO		4.004	0.000	0.000	4000/	200/				
Clair Engle Lake	2,448	1,934	2,096	2,093	108%	86%				
Lake Shasta	4,552	3,697	3,863	3,752	101%	82%				
Whiskeytown Lake	241	213	210	214	100%	89%				
Folsom Lake	977	623	615	674	108%	69%				
New Melones Reservoir	2,420	1,419	1,997	2,011	142%	83%				
Millerton Lake	520	330	459	462	140%	89%				
San Luis Reservoir (CVP	•	854	966	965	113%	99%				
COLORADO RIVER PRO										
Lake Mead	26,159	19,797	24,662	24,659	125%	94%				
Lake Powell	25,002	17,729	20,916	20,819	117%	83%				
Lake Mohave	1,810	1,645	1,677	1,658	101%	92%				
Lake Havasu	619	562	541	535	95%	86%				
EAST BAY MUNICIPAL U	JTILITY DISTF	RICT								
PARDEE RESERVOIR	198	180	175	187	104%	94%				
Camanche Reservoir	417	254	281	281	111%	67%				
East Bay (4 res.)	151	132	139	137	104%	91%				
CITY AND COUNTY OF SAN FRANCISCO										
Hetch-Hetchy Reservoir	360	123	204	172	140%	48%				
Cherry Lake	268	113	203	208	184%	78%				
Lake Eleanor	26	11	16	25	237%	96%				
Souty Bay/Peninsula (4 re	es.) 225	176	209	213	121%	95%				
CITY OF LOS ANGELES	S (D.W.P.)									
Lake Crowley	183	128	135	132	104%	72%				
Grant Lake	48	25	39	37	144%	77%				
Other Aqueduct Storage	(6 res.) 83	77	58	64	83%	77%				

# **TELEMETERED SNOW WATER EQUIVALENTS**

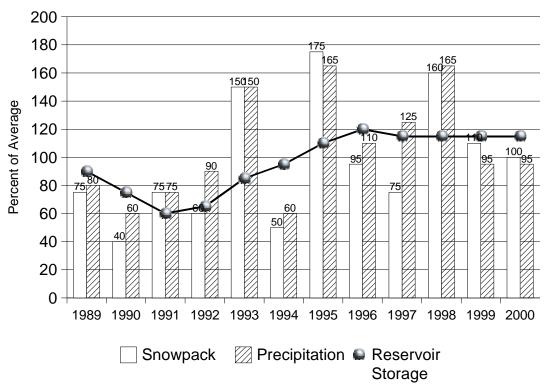
April 1, 2000 (AVERAGES BASED ON PERIOD RECORD)

	(	R EQUIVALENT				
BASIN NAME		APRIL 1		PERCENT	24 HRS	1 WEEK
STATION NAME	ELEV	AVERAGE	Apr 1 OF A		PREVIOUS	PREVIOUS
TRINITY RIVER		7.1.2.0.02	7.p G			
Peterson Flat	7150'	29.2	26.8	91.8	27.4	31.2
Red Rock Mountain	6700'	39.6	_	_	_	_
Bonanza King	6450'	40.5	45.7	112.9	45.9	46.6
Shimmy Lake	6200'	40.3	_		_	_
Middle Boulder 3	6200'	28.3	34.8	123.0	36.1	38.1
Highland Lakes Scott Mountain	6030' 5900'	29.9 16.0	46.5 31.0	155.5 193.7	46.8 31.5	47.8 34.7
Mumbo Basin	5700°	22.4	17.5	78.2	17.8	19.3
Big Flat	5100'	15.8	17.4	109.9	17.7	19.2
SACRAMENTO RIVER						
Cedar Pass	7100'	18.1	14.6	80.7	14.9	15.8
Blacks Mountain	7100'	12.7	11.2	88.2	11.4	13.4
Sand Flat	6750'	42.4	48.2	113.8	48.2	49.1
Medicine Lake	6700'	32.6	34.7	106.4	35.2	36.8
Adin Mountain	6350'	13.6	11.8	86.8	12.2	13.5
Snow Mountain Slate Creek	5950' 5600'	27.0 29.0	37.8 47.0	140.0 162.2	38.2 47.5	40.8 49.0
Stouts Meadow	5400'	36.0	47.0 42.4	102.2	43.6	45.4
FEATHER RIVER	3400	30.0	72.7	117.7	40.0	70.7
Kettle Rock	7300'	25.5	32.2	126.3	32.6	35.0
Grizzly Ridge	6900'	29.7	30.1	101.4	30.6	32.4
Pilot Peak	6800'	52.6	40.3	76.7	40.7	44.8
Gold Lake	6750'	36.5	43.3	118.7	43.4	43.9
Humbug	6500'	28.0	44.8	159.9	45.0	46.7
Rattlesnake	6100'	14.0	27.5	196.3	28.1	31.6
Bucks Lake	5750'	44.7	47.3	105.8	47.5	49.1
Four Trees	5150'	20.0	24.1	120.6	24.7	28.0
EEL RIVER Noel Spring	5100'		0.0		0.0	0.0
YUBA & AMERICAN RIVERS	3100	_	0.0	_	0.0	0.0
Lake Lois	8800'	39.5	43.1	109.2	43.1	43.8
Schneiders	8750'	34.5	41.1	119.1	41.3	42.5
Caples Lake	7800'	30.9	22.6	73.0	22.7	23.8
Alpha	7600'	35.9	29.6	82.6	29.9	32.4
Beta	7600'	35.9	_	_	_	_
Meadow Lake	7200'	55.5	56.1	101.0	56.5	_
Silver Lake	7100'	22.7	20.0	88.1	20.5	23.4
Central Sierra Snow Lab Huysink	6950' 6600'	33.6 42.6	38.1 33.4	113.4 78.3	38.6 33.6	41.6 35.2
Van Vleck	6700'	35.9	31.3	87.1	31.6	34.6
Robbs Saddle	5900'	21.4	20.3	94.9	20.6	22.1
Greek Store	5600'	21.0	21.6	102.9	22.1	24.4
Blue Canyon	5280'	9.0	2.8	31.1	3.6	8.7
Robbs Powerhouse	5150'	5.2	0.0	0.0	0.9	5.6
MOKELUMNE & STANISLAUS RIVE						
Deadman Creek	9250'	37.2	25.2	67.7	25.7	25.7
Highland Meadow	8800'	47.9	25.3	52.9	25.3	26.0
Gianelli Meadow Lower Relief Valley	8350' 8100'	55.5 41.2	40.3 37.7	72.6 91.6	40.6 37.7	41.9 39.0
Blue Lakes	8000'	33.1	26.0	78.5	26.0	26.0
Mud Lake	7900'	44.9	47.9	106.7	48.2	49.2
Stanislaus Meadow	7750'	47.5	38.6	81.3	38.6	39.4
Bloods Creek	7200'	35.5	25.0	70.3	25.2	26.8
Black Springs	6500'	32.0	21.0	65.6	21.1	22.0
TUOLUMNE & MERCED RIVERS						
Dana Meadows	9800'	27.7	25.5	92.0	25.5	26.1
Slide Canyon	9200'	41.1	36.0	87.6	36.0	36.6
Lake Tenaya	8150'	33.1	40.9	123.6	42.2	46.2
Tuolumne Meadows Horse Meadow	8600' 8400'	22.6 48.6	18.5 46.5	81.8 95.7	18.8 46.5	19.9 46.5
Ostrander Lake	8400 8200'	48.6 34.8	46.5 28.4	95.7 81.6	46.5 30.0	46.5 31.7
Paradise Meadow	7650'	41.3	26.4 37.7	91.2	37.7	40.3
Gin Flat	7050'	34.2	17.8	51.9	18.3	20.9
Lower Kibbie Ridge	6600'	27.4	14.3	52.0	14.9	16.9
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			INCF	IES OF WATE	R EQUIVALENT	
BASIN NAME		APRIL 1	F	PERCENT	24 HRS	1 WEEK
STATION NAME	ELEV	AVERAGE	Apr 1 OF A	AVERAGE	PREVIOUS	PREVIOUS
SAN JOAQUIN RIVER		7.0210.02	7 tp. 1 O1 7	WEIGHOL	111211000	111211000
	10100	20.4	25.5	047	26.4	06.4
Volcanic Knob	10100'	30.1	25.5	84.7	26.1	26.1
Agnew Pass	9450'	32.3	28.8	89.2	28.8	29.2
Kaiser Point	9200'	37.8	33.8	89.5	34.1	35.8
Green Mountain	7900'	30.8	30.0	97.4	30.0	31.5
Tamarack Summit	7600'	30.5	24.5	80.3	25.0	26.8
Chilkoot Meadow	7150'	38.0	26.5	69.8	26.8	28.4
Huntington Lake	7000'	20.1	17.9	89.0	18.4	20.6
	6900'	18.8	16.3		16.7	
Graveyard Meadow				86.8		19.7
Poison Ridge	6900'	28.9	17.9	61.9	18.5	22.0
KINGS RIVER						
Bishop Pass	11200'	34.0	25.9	76.1	25.9	27.2
Charlotte Lake	10400'	27.5	22.7	82.7	22.9	23.5
State Lakes	10400'	29.0	_	_	_	_
Mitchell Meadow	10375'	32.9	33.0	100.3	33.8	35.2
Blackcap Basin	10300'	34.3	35.7	104.1	36.3	37.0
•						
Upper Burnt Corral	9700'	34.6	39.7	114.7	40.3	42.3
West Woodchuck Meadow	9100'	32.8	34.0	103.7	34.2	35.1
Big Meadows	7600'	25.9	26.5	102.4	26.9	28.9
KAWEAH & TULE RIVERS						
Quaking Aspen	7200'	21.0	14.2	67.4	14.5	17.4
Giant Forest	6400'	10.0	8.6	86.0	9.3	12.4
KERN RIVER	0.00		0.0	00.0	0.0	
Upper Tyndall Creek	11500'	27.7	21.2	76.5	21.2	21.2
11 ,						
Crabtree Meadow	10700'	19.8	14.6	73.6	14.6	14.6
Chagoopa Plateau	10300'	21.8	23.3	106.9	23.3	23.3
Pascoes	9150'	24.9	24.8	99.6	25.1	25.2
Tunnel Guard Station	8950'	15.6	8.8	56.4	8.8	10.8
Wet Meadows	8900'	30.3	24.5	80.9	25.1	27.3
Casa Vieja Meadows	8400'	20.9	15.7	75.3	15.7	16.4
Beach Meadows	7650'	11.0	1.6	14.7	1.9	5.7
	7030	11.0	1.0	14.7	1.9	5.7
SURPRISE VALLEY AREA						
Dismal Swamp	7050'	29.2	28.2	96.6	28.7	29.9
TRUCKEE RIVER						
Mount Rose Ski Area	8850'	38.5	35.2	91.4	35.2	35.4
Independence Lake	8450'	41.4	42.1	101.7	42.1	42.0
Big Meadows	8700'	25.7	17.7	68.9	18.1	18.9
Squaw Valley	7800'	46.5	52.5	112.9	52.6	56.3
Independence Camp	7000'	21.8	11.1	50.9	11.3	12.0
Independence Creek	6500'	12.7	12.0	94.5	12.2	13.2
Truckee 2	6350'	14.3	15.0	104.9	15.2	18.1
LAKE TAHOE BASIN						
Heavenly Valley	8800'	28.1	21.6	76.9	21.6	22.4
Hagans Meadow	8000'	16.5	10.7	64.8	11.0	12.8
Marlette Lake	8000'	21.1	22.0	104.3	22.1	22.9
			39.4	99.7	39.7	
Echo Peak 5	7800'	39.5				41.5
Rubicon Peak 2	7500'	29.1	24.9	85.6	24.9	26.2
Tahoe City Cross	6750'	16.0	11.7	73.1	12.2	14.5
Ward Creek 3	6750'	39.4	33.8	85.8	34.2	35.7
Fallen Leaf Lake	6300'	7.0	0.0	0.0	0.0	0.0
CARSON RIVER						
Ebbetts Pass	8700'	38.8	29.5	76.0	29.7	31.0
Poison Flat	7900'	16.2	6.2	38.3	7.1	8.6
		10.2		30.3		
Monitor Pass	8300'		10.5		10.8	12.1
Spratt Creek	6150'	4.5	0.0	0.0	0.0	0.0
WALKER RIVER						
Leavitt Lake	9400'	_	57.1	_	57.1	57.4
Virginia Lakes	9200'	20.3	14.2	70.0	14.2	14.2
Lobdell Lake	9200'	17.3	12.1	69.9	12.1	12.3
Sonora Pass Bridge	8750'	26.0	21.5	82.7	21.5	21.7
•						
Leavitt Meadows	7200'	8.0	7.2	90.0	7.8	9.8
OWENS RIVER/MONO LAKE						
Gem Pass	10750'	31.7	29.0	91.6	29.0	29.7
Sawmill	10300'	19.4	13.1	67.4	13.1	13.7
Cottonwood Lakes	10200'	11.6	8.7	74.8	9.3	9.6
Big Pine Creek	9800'	17.9	9.8	54.7	9.8	10.4
South Lake	9600'	16.0	16.0	100.1	16.0	16.3
Mammoth Pass	9500'	42.4	36.4	85.8	36.6	37.4
Rock Creek Lakes	10000'	14.0	11.1	79.1	11.3	11.7
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NODMAL CNI	11/10/01/ AC	~	IDECCED AC A DEF	ハードリエ レヒ VD	DII 464 V/ED V	· i

NORMAL SNOWPACK	CACCUMULATIC	N EXPRESSED AS	A PERCENT	OF APRIL 1ST	AVERAGE
AREA	JANUARY	FEBRUARY	MARCH	APRIL	MAY
Central Valley North	45%	70%	90%	100%	75%
Central Valley South	45%	65%	85%	100%	80%
North Coast	40%	15 <sup>60%</sup>	85%	100%	80%
		13			

**April 1 Statewide Conditions** 



# **SNOWLINES**

<u>Its not too late</u> to register for the 2000 Western Snow Conference annual meeting. It will be held April 17–20 at Port Angeles, WA. For further information regarding the Western Snow Conference contact Frank Gehrke at 916–574–2635 or <u>gridley@water.ca.gov.</u>

Information is available on the web at <a href="http://snobear.colorado.edu/WSC/WSC.html">http://snobear.colorado.edu/WSC/WSC.html</a>.

<u>The 2000</u> California Cooperative Snow Surveys annual meeting will be at the Asilomar Conference Center in Pacific Grove, CA December 6–8, 2000. Mark your calendars now for this important meeting.

<u>Maury Roos</u> is retiring. Call Lenore Keen at 916–574–2605 or <a href="mailto:lkeen@water.ca.gov">lkeen@water.ca.gov</a> by May 19 for reservations to his luncheon to be held on June 9.

<u>The four sites</u> with the Sandia Snow Detectors, Central Sierra Snow Lab, Gin Flat, Big Meadows and Crabree are all performing well. Check our home page for a link which compares the performance of the detectors with the collocated snow pillows.

**SNOWPACK** - Snow data is a major index of spring and summer runoff from Sierra Nevada watersheds. April 1 data historically reflects the magnitude of the snowpack at or near the maximum seasonal accumulation. Averages are based on April 1 data for the period 1941-1990 (50 years, except for data sites established after 1941).

**PRECIPITATION** - Averages are based on April 1 data for the period 1941-1990 (50 years, except for data sites established after 1941).

**RUNOFF AND FORECASTS** - Runoff data and runoff forecasts are shown as unimpaired values. Unimpaired runoff represents the natural water production of a river basin, unaltered by upstream diversions, storage, or by export or import of water to or from other watersheds. Forecast of runoff assumes median conditions subsequent to the date of forecast.

Runoff probability ranges are statistically derived from historical data. The 80 percent probability range is comprised of the 90 percent exceedence level value and the 10 percent exceedence level value. This means that actual runoff should fall within the stated limits eight times out of ten.

Runoff averages for most streams are based on the period 1946-1995. For more details contact California Cooperative Snow Surveys, P.O. Box 942836, Sacramento, CA 94236-0001, (916) 574-2635 or gridley@water.ca.gov.

# INDICES OF WATER AVAILABILITY

The Sacramento River Hydrologic Region 40-30-30 Water Supply Index. The values 40-30-30 represent the percentage weight given to the three variables in the formula for the index. The first variable is the forecasted unimpaired runoff from April through July (40 Percent). The second variable is the forecasted unimpaired runoff from October through March (30 Percent). The third variable is the previous year's index with a cap to account for required flood control releases during wet years. The basins used in this computation are those used in the Sacramento River water year unimpaired runoff.

<u>The Sacramento River water year unimpaired runoff</u> is the sum of: Sacramento River above Bend Bridge, Feather River Inflow to Lake Oroville, Yuba River near Smartville and American River Inflow to Folsom Lake.

The San Joaquin River Hydrologic Region 60-20-20 Water Supply Index. In a similar manner, the values 60-20-20 represents the percentage weights on April through July runoff, October through March runoff and previous year's index. The San Joaquin River unimpaired runoff is the sum of: Stanislaus River Inflow to New Melones Lake, Tuolumne River Inflow to New Don Pedro Reservoir, Merced River Inflow to Lake McClure and San Joaquin River Inflow to Millerton Lake.

Runoff of the eight major rivers of the Sacramento and San Joaquin Regions is the sum of the runoff in the eight major rivers used in the two above indices.

State of California – The Resources Agency DEPARTMENT OF WATER RESOURCES P.O. Box 942836 Sacramento, CA 94236-0001

# **First Class**

